Lesson Plan

Name of Faculty	:	Bharti Sethi, AP, CSE				
Discipline	:	Computer Science and Engineering				
Semester	:	8 th				
Subject	:	Data Warehousing And Data Mining (IT-401-E)				
Lesson Plan Duration	:	15 weeks (from feb 2024 to August-2024)				
Work Load (Lecture/Practical) per week (in hours): Lectures-04 hours,						

Week	ad (Lecture/Practical) per week (in hours): Lectures-04 hours, Theory			Topic Covered Date and Remarks		
	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director- Principal	
	1	Data warehousing Definition,				
1st 3	2	Usage and trends				
	3	DBMS vs data warehouse,				
	4	Data marts,				
2nd	5	Metadata				
	6	Multidimensional data mode				
	7	Data cubes,				
	8	Schemas for Multidimensional Database:				
3rd	9	Stars,				
	10	Snowflakes				
	11	fact constellations				
	12	Data warehouse process				
	13	Data warehouse architecture				
4th	14	OLTP vs OLAP				
	15	ROLAP vs MOLAP,				
	16	Types of OLAP,				
	17	Servers				
5th	18	3-Tier data warehouse architecture				
	19	Distributed data warehouses,				
	20	virtual data warehouses,				
	21	Data warehouse manager				
	22	Data warehouse implementation				
	23	Computation of data cube				
	24	Modeling OLAP data,				
7th		1 st Minor Test				
8th	25	OLAP queries manager,				
	26	Data warehouse back end tools,				
	27	Complex aggregation at multiple granularities				
	28	Tuning of data warehouse				
	29	Testing of data warehouse				
9th	30	Data mining definition				
	31	Data mining task				
	32	KDD versus data mining,				
10th	33	Data mining techniques				
	34	Tools				
	35	Applications.				
	36	Data mining query languages				
11th	37	data specification				
	38	specifying knowledge				
	39	hierarchy specification				
	40	Pattern presentation				
12th	41	Visualization specification,				
	42	Data mining languages				
	43	standardization of data mining				
	44	Data mining techniques:				
13th	45 46	Association rules, Clustering techniques Decision tree knowledge discovery through Neural Network				
	46	Decision tree knowledge discovery through Neural Network Decision tree knowledge discovery through Genetic Algorithm				
	47					
	48	Support Victor Machines and Fuzzy techniques.				
14th		2 nd Minor Test				
15th	49	Mining complex data objects				
	50	Spatial databases, Multimedia databases,				
	51	Time series and Sequence data;	 			
	52	Mining Text Databases and mining Word Wide Web.				